### PATENT COOPERATION TREATY

# **PCT**

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 58915WO006	A TILLIN AS WELL BY, WHELE REPRESENTED TO	
nternational application No. PCT/US04/32616	International filing date (day/month/year) 01 October 2004 (01.10.2004)	(Earliest) Priority Date (day/month/year) 03 October 2003 (03.10.2003)
Applicant BM INOVATIVE PROPERTIES COMPA	ANY	
This international search report consis  It is also accompani  Basis of the Report  a. With regard to the language, the language in which it was filed,  The internation furnished to this Auth  b. With regard to any nucleous Certain claims were found  Unity of invention is lack  With regard to the title,  the text is approved as su	ne international search was carried out on the lunless otherwise indicated under this item.  al search was carried out on the basis of a transcrity (Rule 23.1(b)).  otherwise and/or amino acid sequence disclosed in dunsearchable (See Box No. II)  ting (See Box No. III)	ed in this report.  Dasis of the international application in the instantional application
5. With regard to the abstract, the text is approved as s	abmitted by the applicant.	rity as it appears in Box No. IV. The applicat
the text is approved as s		rity as it appears in Box No. IV. The applicate arch report, submit comments to this Authority
the text is approved as so the text has been establis may, within one month of the drawings,  a. the figure of the drawings to	shed, according to Rule 38.2(b), by this Autho from the date of mailing of this international sc be published with the abstract is Figure No.	aton report, adomit commons to the com-
the text is approved as so the text has been established may, within one month of the drawings,  a. the figure of the drawings to the drawings	shed, according to Rule 38.2(b), by this Autho from the date of mailing of this international so be published with the abstract is Figure No.	
the text is approved as so the text has been establis may, within one month to the drawings,  a. the figure of the drawings to as suggested by as selected by the drawings to	shed, according to Rule 38.2(b), by this Autho from the date of mailing of this international sc be published with the abstract is Figure No.	auggest a figure.

Form PCT/ISA/210 (first sheet) (January 2004)

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/32616

Box No. Π	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)			
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:			
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:			
3. S	Claims Nos.: 5-10,14,21,25,34,38,41,64,65 and 76-90 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule			
Box No. II	in a significant is locking (Continuation of item 3 of first sheet)			
Please See (	As all required additional search fees were timely paid by the applicant, this international search report covers all			
2.	searchable claims.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite			
3.	payment of any additional fee.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:			
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:			
	The applicant's protest.			
Remark	on Protest The additional search fees were accompanied by the applicant specific protest.  No protest accompanied the payment of additional search fees.			
- 1	No protest accompanies are pro-			

Form PCT/ISA/210 (continuation of first sheet(2)) (January 2004)

#### INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/32616

A. CLASSIFICATION OF SUBJECT MATTER  IPC(7) : A61K 31/4745, 31/496, 31/506, 31/5377, 31/541, 31/551; C07D 471/04, 401/14, 405/14; A61P 37/02  US CL : 514/293, 232.8, 253.03, 218, 214.03, 217.07, 273, 228.5; 546/82; 544/126, 60, 361; 540/575, 585, 597  According to International Patent Classification (IPC) or to both national classification and IPC  B. FIELDS SEARCHED  Minimum documentation searched (classification system followed by classification symbols)  U.S.: 514/293, 232.8, 253.03, 218, 214.03, 217.07, 273, 228.5; 546/82; 544/126, 60, 361; 540/575, 585, 597						
	Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) CAS ONLINE						
C. DOCU	IMENTS CONSIDERED TO BE RELEVANT		To the state No.			
Category *	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.			
X,P	US 2004/0176367 A1 (GRIESGRABER et al) 09 September 2004 (09.09.2004), see entire document, especially page 53, Example 22; pages 54-56, compound I-ld.		1-4, 11-13, 15-20, 22- 24, 26-33, 35-37, 39, 40, 42-63, 66-75			
A	US 6,200,592 B1 (TOMAI et al) 13 March 2001 (13.03.2001), columns 3-6, Formulae I-V.		1-4, 11-13, 15-20, 22- 24, 26-33,35-37, 39- 40, 42-63, 66-75			
A	US 4,753,951 A (TAKADA et al) 28 June 1988 (28.06.1988), columns 13-70.		91-93			
A	US 4,698,348 A (GERSTER) 06 October 1987 (06.1	0.1987), column 5, line 57.	91-93			
. —	r documents are listed in the continuation of Box C.	See patent family annex.	mational filing date or priority			
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "E" carlier application or patent published on or after the international filing date		date and not in conflict with the applic principle or theory underlying the inv  "X"  document of particular relevance; the considered novel or cannot be consid when the document is taken alone	ation but cited to understand the ention cannot be			
establish specified	•	"Y" document of particular relevance; the considered to involve an inventive such document with one or more other such document obvious to a person skilled in the art	p when the document is combined			
"O" document referring to an oral disclosure, use, exhibition or other means  "P" document published prior to the international fixing date but later than the priority date claimed		"&" document member of the same paten	lamily			
	actual completion of the international search	Date of mailing of the international search report				
08 March 20	005 (08.03.2005)	1.8 APR 2005				
Name and mailing address of the ISA/US  Mail Stop PCT, Aun: ISA/US  Commissioner for Patents  P.O. Box 1430  Alexandria, Virginia 22313-1450		Authorized officer  Evelyn Huang 7. Robe  Telephone No. (571) 272-1600	to for			

•	International application No.			
INTERNATIONAL SEARCH REPORT	PCT/US04/32616			
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BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING  This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.				
Group I, claim(s) 1-4, 11-13, 15-20, 22-24, 26-33, 35-37, 39, 40, 42-63 and 66-composition and method of use.				
Group II, claim(s) 91-93, drawn to an imdazoquinoline compound of formula IX				
The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group I is drawn to an immunomodulating 4-aminoimidazoquinoline compound. Group II is drawn to an imidazoquinoline compound of Formula IX, which				
has psychostimulant activity.				
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